

Figure 1A

No.	Kinase-Subclass	Family	Sub	Protein	α D sequence
1	Serine/Threonine	RAF		c-Raf	TQWCEGSSLYKHLHVQETK F
2	Serine/Threonine	RAF		Araf	TQWCEGSSLYHHLHVADTR F
3	Serine/Threonine	RAF		Braf	TQWCEGSSLYHHLHIIETKF
4	Serine/Threonine	CAPK		cAPKa	MEYVPGGEMFSLRRIGRF
4	Serine/Threonine	CAPK		cAPKb	MEYVPGGEMFSLRRIGRF
5	Serine/Threonine	CAPK		cAPKg	MEYVPGGEMFSRLQRVGRF
6	Serine/Threonine	PKC		PKCa	MEYVNGGDLMYHIQQVGK F
7	Serine/Threonine	PKC		PKCb	MEYVNGGDLMYHIQQVGR F
8	Serine/Threonine	PKC		PKCg	MEYVTGGDLMYHIQQLGKF
9	Serine/Threonine	PKC		PKCd	MEFLNGGDLMFHIQDKGRF
10	Serine/Threonine	PKC		PKCe	MEYVNGGDLMFQIQRSRKF
11	Serine/Threonine	PKC		PKCet	MEFVNGGDLMFHIQKSRRF
12	Serine/Threonine	PKC		PKCth	MEYLNNGGDLMYHIQSCHKF

Figure 1B

13	Serine/Threonine	Akt/PKB		Akt1/RacA	MEYANGGELFFHLSRERVF
13	Serine/Threonine	Akt/PKB		Akt2/RacB	MEYANGGELFFHLSRERVF
14	Serine/Threonine	GSK3		GSK3a	LEYVPETVYRVARHFTKAK LII
15	Serine/Threonine	GSK3		GSK3b	LDYVPETVYRVARHYSRAK QTL
16	Serine/Threonine	CK II		CK IIa	FEHVNNTDFKQLYQTL
17	Serine/Threonine	CK II		CK IIa'	FEYNNTDFKQLYQIL
18	Serine/Threonine	bARK1,2		bARK1	LDLMNGGDLHYHLSQHGV F
18	Serine/Threonine	bARK1,2		bARK2	LDLMNGGDLHYHLSQHGV F
19	Serine/Threonine	GRK1		GRK1	MTIMNGGDIRYHIYNVDED NPGF
20	Serine/Threonine	GRK4		GRK4	LTIMNGGDLKFHIYNLGNPG F
21	Serine/Threonine	GRK5		GRK5	LTIMNGGDLKFHIYNMGNP GF
22	Serine/Threonine	GRK6		GRK6	LTLMNGGDLKFHIYHMGQA GF

Figure 1C

23	Serine/Threonine	CaMK		CaMK I	MQLVSGGELFDRIVEKGGY
24	Serine/Threonine	CaMK		CaMK IIa	FDLVTGGELFEDIVAREYY
24	Serine/Threonine	CaMK		CaMK IIb	FDLVTGGELFEDIVAREYY
24	Serine/Threonine	CaMK		CaMK IIg	FDLVTGGELFEDIVAREYY
24	Serine/Threonine	CaMK		CaMK IId	FDLVTGGELFEDIVAREYY
25	Serine/Threonine	POLO		Plk	LELCRRRSLELHKRRKAL
26	Serine/Threonine	POLO		Plx1	LELCRRRSLELHKRRKAV
27	Serine/Threonine	POLO		polo	LELCCKRSMMELHKRRKSI
28	Serine/Threonine	POLO		SNK	LEYCSRRSMAHILKARKVL
29	Serine/Threonine	POLO		CDC5	LEICPNGSLMELLKRRKVL
30	Serine/Threonine	POLO		Sak	LEMCHNGEMNRYLKNRVK PF
31	Serine/Threonine	POLO		Prk	LELC SRKSLAHIWKARHTL

Figure 1D

31	Serine/Threonine	POLO		Fnk	LELC SRKSLAHIWKARHTL
32	Serine/Threonine	POLO		Plol	LELCEHKSLMELLRK RKQL
33	Serine/Threonine	MARK/p78		MARK1	MEYASGGEVFDYLV AHGR M
33	Serine/Threonine	MARK/p78		MARK2	MEYASGGEVFDYLV AHGR M
34	Serine/Threonine	MARK/p78		P78	MEYASGGKVFDYLV AHGR M
35	Serine/Threonine	CDK		CDK2	FEFLHQDLKKFMDASALTGI
36	Serine/Threonine	CDK		CDK4	FEHVDQDLRTYLDKAPPPG L
37	Serine/Threonine	CDK		CDK6	FEHVDQDLTTYLDKVPEPG V
38	Tyrosine	SRC		c-Src	TEYMSKGSLLDFLKGETGK YL
39	Tyrosine	SRC		c-Yes	TEFMSKGSLLDFLKEGDGK YL
40	Tyrosine	SRC		Fyn	TEYMNKGSLLDLFLKDGEGR AL
41	Tyrosine	SRC		c-Fgr	TEFMCHGSLLDFLKNPEGQ DL

Figure 1E

42	Tyrosine	LYN/HCK		Lyn	TEYMAKGSLLDFLKSDEGGKV
43	Tyrosine	LYN/HCK		Hck	TEFMAKGSLLDFLKSDEGSKQ
44	Tyrosine	LCK		Lck	TEYMENGSLVDFLKTPSGIKL
45	Tyrosine	CSK		Csk	TEYMAKGS�VDYLRSRGRSVL
46	Tyrosine	CSK		Matk	MEHVSKGNLVNFLRTRGRA LV
47	Tyrosine	FAK		Fak	MELCTLGELRSFLQVRKYSL
48	Tyrosine	ABL		c-Abl	TEFMTYGNLLDYLRECNRQEV
49	Tyrosine	ENDOTHELIAL	Tie/Tek	Tie	IEYAPYGNLLDFLRKSRVLE TDPFAFAREHGTASTL
50	Tyrosine	ENDOTHELIAL	Tie/Tek	Tek	IEYAPHGNLLDFLRKSRVLE TDPAFAIANSTASTL
51	Tyrosine	ENDOTHELIAL	FGFR	Flg	VEYASKGNLREYLRARRPP GLEYCYNPSHNPEEQL
52	Tyrosine	ENDOTHELIAL	FGFR	Bek	VEYASKGNLREYLRARRPP GMEYSYDINRVPEEQM
53	Tyrosine	ENDOTHELIAL	FGFR	FGFR-3	VEYAAKGNLREFLRARRPP GLDYSFDTCKPPEEQL

Figure 1F

54	Tyrosine	ENDOTH ELIAL	FGFR	FGFR-4	VECAAKGNLREFLRARRPP GPDLSPDGPRSSEGPL
55	Tyrosine	ENDOTH ELIAL	PDGFR	PDGFR-a	TEYCFYGDLVNYLHKNRDS FLSHHPEKPKKELDIFGLNP A
56	Tyrosine	ENDOTH ELIAL	PDGFR	PDGFR-b	TEYCRYGDLDVYLHRNKHT FLQHHSDKRRPPSAELYSNA L
57	Tyrosine	ENDOTH ELIAL	Flt/Flk	Flt1	VEYCKYGNLSNYLKSKRDL FFLNKDAALHMEPKKEKME PG
58	Tyrosine	ENDOTH ELIAL	Flt/Flk	Flt4	VEFCKYGNLSNFLRAKRDA FSPCAEKSPEQRGRFRAMV EL
59	Tyrosine	ENDOTH ELIAL	Flt/Flk	Flk1	VEFSKFGNLSTYLRGKRNEF VPYKSKGARFRQGKDYVGE L
60	Tyrosine	HGFR		c-Met	LPYMKHGDLRNFIRNETHN P
61	Tyrosine	HGFR		c-Sea	LPYMRHGDLRHFIRAQERSP
62	Tyrosine	HGFR		Ron	LPYMCHGDLLQFIRSPQRNP
63	Tyrosine	EGFR		EGFR	TQLMPFGCLLDYVREHKDN I
64	Tyrosine	EGFR		ErbB2	TQLMPYGCLLDHVRENRRGR L
65	Tyrosine	EGFR		ErbB3	TQYLPLGSLLDHVRQHRGA L

Figure 1G

66	Tyrosine	EGFR		ErbB4	TQLMPHGCALLEYVHEHKDNI
67	Tyrosine	RET		Ret	VEYAKYGSRLRGFLRESRKVGPGYLGSGGSRNSSSLDHPDERAL
68	Tyrosine	TRK-NGFR		Trk -NGFR	FEYMRHGDNLNRFLRSHGPD AKLLAGGEDVAPGPL
69	Tyrosine	TRK-NGFR		TrkB	FEYMKHGDNLNKFLRAHGPD AVLMAEGNPPTTEL
70	Tyrosine	TRK-NGFR		TrkC	FEYMKHGDNLNKFLRAHGPD AMILVDGQPRQAKGEL
71	Tyrosine	SYK/ZA P70		Syk	MEMAELGPLNKYLQQNRHV
72	Tyrosine	SYK/ZA P70		Zap70	MEMAGGGPLHKFLVGKRE EI
73	Tyrosine	TYK/JAK		Jak1	MEFLPSGSLKEYLPKNKNKI
74	Tyrosine	TYK/JAK		Jak2	MEYLPYGSLRDY LQKHKER I
75	Tyrosine	TYK/JAK		Jak3	MEYLP SGCLRD FLQRHRAR L
76	Tyrosine	TYK/JAK		Tyk2	MEYVPLGSLRDY LPRHSI
77	Serine/Threonine	IAK		Iak1	LEYAPLGTVYRELQKLSKF

Figure 1H

78	Serine/Threonine	CHK		Chk1	LEYCSGGELFDRIEPDIGM
79	Serine/Threonine	IKK		IKK-1	MEYCSGGDLRKLLNKPENC CGL
80	Serine/Threonine	IKK		IKK-2	MEYCQGGDLRKYLNQFEN CCGL
81	Serine/Threonine	DAPK		DAPK	LELVAGGELFDFLAEKESL
82	Tyrosine	IRK		IRK	MELMAHGDLSYLSRSLRPE AENNPGRPPPTL
83	Serine/Threonine	Activin/T GFbR	TGFbR	TGFbRII	TAFHAKGNLQEYLTRHVI
84	Serine/Threonine	Activin/T GFbR	ACTR	ACTRIIA	TAFHEKGSLSDFLKANVV
85	Serine/Threonine	Activin/T GFbR	ACTR	ACTRIIB	TAFHDKGSLTDYLKGNII
86	Serine/Threonine	Activin/T GFbR	ALK	ALK1	THYHEHGSLYDFLQRQTL
87	Serine/Threonine	Activin/T GFbR	ALK	ALK2	THYHEMGSLYDYLQLTTL
88	Serine/Threonine	Activin/T GFbR	ALK	ALK3	TDYHENGSLYDFLKCATL
89	Serine/Threonine	Activin/T GFbR	ALK	ALK4	SDYHEHGSLFDYLNRYTV

Figure 1I

89	Serine/Threonine	Activin/T GFbR	ALK	ALK5	SDYHEHGSFLDYLNRYTV
90	Serine/Threonine	Activin/T GFbR	ALK	ALK6	TDYHENGSLYDYLKSTTL
91	Tyrosine	DDR		DDR1	TDYMENGDLNQFLSAHQL
92	Tyrosine	DDR		DDR2	TEYMENGDLNQFLSRHEP
93	Serine/Threonine	ILK		ILK	THWMPYGSLYNVLHEGTNF VV
94	Tyrosine	MAPK		JNK	MELMDANLCQVIQMEL

Figure 2A

Protein Kinase

c-Raf	T	Q	W	C	E	G	S	S	L	Y	K	H	L	H	I	E	T	K	F
Araf	S	N	F	S	D	A	T	T	I	F	H		I		V	D	S	R	W
Braf			Y		*				M	W	R		M		M	*			Y
									V				V		L				

cAPKa	M	E	Y	V	P	G	G	E	M	F	S	H	L	R	R	I	G	R	F
cAPKb	I	Q	F	L	N	A	A	D	L	M	F	R	I	Q	H	V	R	K	W
cAPKg	L	D	W	A	T			*	I	W	Y	Q	M	S	Q	E	H	V	Y
	V	N		I	S				V	Y	W	K	V	K	D	L	K	I	
		*		M	Q					I	T	N		N	K	K	A	L	
			G							L				T	S	S		M	
									V						N	C			
															E	M			
															T	D			
															*	R			
															T				
															*				

PKCa	M	E	Y	V	N	G	G	D	L	M	F	H	I	Q	Q	V	G	K	F
PKCb	I	D	F	L	T	A	A	E	I	I	Y	Q	L	N	D	L	R	R	W
PKCg	L	*	W	I	Q			*	M	L	W	N	M		R	K	H		Y
PKCd	V			M	S				V	V			V		K	S	K		
PKCe															S	C	A		
PKCet															N	I			
PKCth															E	M			
															T	R			
															*	T			

Akt1/Raca	M	E	Y	A	N	G	G	E	L	F	F	H	L	S	R	E	R	V	F
Akt2/Racb	I	Q	F	V	Q	A	A	D	I	W	W		I	T	H	D	K	I	W
DmRAC	L	D	W	I				*	M	Y	Y		M		K	*		L	Y
	V	N		L					V				V					M	
		*		M															
			G																

GSK3a	L	E	Y	V	P	E	T	V	Y	R	V	A	R	H	Y	T	K	A	K	Q	I	I
GSK3b	I	D	F	I		D	S	I	H	K	I	I	K	Q	F	S	R	T	N	L	T	L
Sgg/zw3	M	*	W	L		*		L	F		L	V		N	W	A		L	R	N	R	M
ASK-a	V			M				M	W		M	L				N		S	Q	I	L	V
ASK-g											M					Q		I		M	M	
										G						G		M		V	V	
																		V		S		
																		G		K		

CK IIa	F	E	H	V	N	N	T	D	F	K	Q	L	Y	Q	T	L				
CK IIa'	W	D	Y	I	Q	Q	S	E	W	R	N	I	F	N	I	I				
	Y	*	F	L				*	Y			M	W		S	M				
			W	M								V			M	V				
															V					
															L					

Figure 2B

bARK1	L D L M N G G D L H Y H L S Q H G V F N P G F
bARK2	M T I I Q A A E I R F I Y N V D E D G F A W
GRK1	I E M L * M K W M T H L E N P Q W Y
GRK4	V S V V V V F M A Q A A Y
GRK5	* W I * I W
GRK6	L Y
	M E
	D G
	* *

CaMK I	M Q L V S G G E L F D R I V E K G G Y
CaMK IIa	F D I I T A A D I W E D L I A R E Y F
CaMK IIb	W N M L * M Y * K M L D D F W
CaMK IIg	Y E V M V E V M G A W
CaMK IId	I * * * A
	L
	V

Plk	L E L C R R R S L L E L H K R R K A L F
Plx1	I D I S K K G E M M A I L R A H S V W
Polo	M * Y S N K D I N R Y W N V V I Y
SNK	V M P H A T V A H M I K R K P
CDC5	V F H Q * I D V M Q I T M
Sak	F E V K F V G L Q
Prk	W T Q G W F M T
Fnk	D G * Y I
Plol	* L
	M
	R
	N
	G

P78	M E Y A S G G E V F D Y L V A H G R M
MARK1	L D F G T A A K I W E F I I G A K I
MARK2	I * W D L Y * W M L L
Parl	V R M V M V
	*

CDK2	F E F L H Q D L K K F M D A V A L T G I
CDK4	W D H V D N E I R T Y L E K S P P A L
CDK6	Y * W I E * M T R W I * R A G E S V
	Y M * V S S V G I I M
	L M
	V
	D
	*

Figure 2C

c-Src	T	E	F	M	S	K	G	S	L	L	D	F	L	K	G	E	T	G	K	Y	L
c-Yes	M	D	Y	V	N	H	A	N	I	V	N	Y	I	R	E	G	S	R	R	A	V
Fyn	S	*	H	I	C	N		T	M	I	E	W	M		D	P	D	K	Q	D	Q
c-Fgr	I		W	L	A	R		Q	V	M	Q		V		N	D	E	A	G	K	I
Lyn	L				E	Q					*				S	R	G		S	V	M
Hck	V				T										T	K	A		I	L	N
Lck					Q										Q	A	*		A	F	
Csk					D										A	*			N	W	
Matk					G										*				T	E	
					*														L	R	
																			M	I	
																			V	M	
																			G		
																			*		

Fak	M	E	L	C	T	L	G	E	L	R	S	F	L	Q	V	R	K	Y	S	L
	I	D	I	S	S	I	A	D	I	K	T	W	I	N	I	K	R	F	T	I
	L	*	M			M	*	M				Y	M		L		W		M	
	V		V			V		V				V	M						V	

c-Abl	T	E	F	M	T	Y	G	N	L	L	D	Y	L	R	E	C	N	R	Q	E	V
	S	D	W	I	S	F	A	Q	I	I	E	F	I	K	D	S	Q	K	N	D	I
		*	Y	L		W			M	M	*	W	M		*				*	L	
				V					V	V		V								M	

Tie	I	E	Y	A	P	Y	G	N	L	L	D	F	L	R	K	S	R	V	L	E	T	D	P	A	F	A	R	E	H	G	T	
Tek	T	D	F	C	R	H	A	D	I	V	N	Y	I	H	R	N	K	H	T	F	L	Q	H	S	D	I	A	N	S	P		
PDGFR-b	V	*	W	S	F	F		Q	M	S	T	W	M	K	S	K	D	S	D	F	S	N	K	P	E	K	R	R	P	E		
PDGFR-a	L			T	K	W		E	V	I	E		V		A	T		N	A	W	S	L	C	R	D	K	A	P	K	K	R	
Flt1	M			G	W		*		M	Q					G	Q		I	E	Y	V	P	Y	G	E	R	S	L	E	M	S	
Flt4	S			Y					T	S					T	R		L	I	*	I	E	Q		W	G	G	D	Q	Q	D	
Flk1										*								M	M		M	N	F		Y	T	*	L	K	D	F	K
																		E	V		W	T	W		*		M	I	*	T	*	
																		Q	D		Y	I	S		*		V	M		R	I	
																		*	G							T	V	G		L	V	
																															N	W
																															Y	A

Tie	S	T	L	Y	S	N	A	L
Tek	A	E	F	G	L	E	P	A
PDGFR-b	D	I	E	K	M	V	E	G
PDGFR-a	K	K	R	A	V	G	D	I
Flt1	R	F	D	F	T	Q	G	M
Flt4	G	S	I	W	I	D	*	V
Flk1	T	D	M	R		I		
	E	L	V			L		
	*	M	W			M		
		V	Y			A		
		R	K			*		
		W	*					
		Y						
		*						

Figure 2D

Flg	V E Y A S K G N L R E Y L Q A R R P P G L E Y C Y N P S H N P
Bek	I D C G A R A Q I K D F I R G K K A M D L S F D I N R V S
FGFR-3	L * F T M * W M N P * F T P Q T C K P T
FGFR-4	M W G V V K I V W I M V W E * L T S Q I L M T

Flg	E Q L
Bek	G P M
FGFR-3	D N I
FGFR-4	A V

c-Met	L P Y M K H G D L R N F I R N E T H N P
c-Sea	I F I R A E I L H W L K A Q E R S
Ron	M W L C * M K Q Y M S P Q K Q
	V V S V I V Q D S T
	M T N D
	V G * N

EGFR	T Q L M P F G C L L D Y V R E H K D N I
ErbB2	S N Y L Y A S I I E H I H Q N R G R L
ErbB3	I I L T M M * F L K D Q E A M
ErbB4	M V H V V W M N * A Q V
	V W I * K
	F I G
	W M V

Ret	V E Y A K Y G S L R G F L R E S R K V G P G Y L G S G G S R N
	I D F G R F A T I K A W I K D T K R I A A F I A T A A T K Q
	L * W W M Y M * L W M
	M V V V M V

Ret	S S L D H P D E R A L
	T T I E E D K G I
	M * * * M
	V V

Figure 2E

Syk
Zap70

```

M E M A E L G P L N K Y L Q Q N R H V I
I D I G G G A   I H R F I V G K K E E L
L * L   D I   M Q   W M N N Q   D I M
V   V   A M   V   V I A R   * L V
          * V           L   M
          A           M   D
                      *

```

Jak1
Jak2
Jak3
Tyk2

```

M E F L P S G S L K E Y L P K N K N K I
I D Y I   Y A C I R D F I Q R H R E R L
L * W M   T   T M   * W M N   Q S A   M
V   V   F   V   V   V   T Q   V
          W           D
          L           G
          I           I
                      *

```

Jak1

```

L E Y A P L G T V Y R E L Q K L S K F
I D F G   I A S I F K D I N R I T R W
M * W   M   L W   * M   M   Y
V   V   M   V   V   V

```

Chk1

```

L E Y C S G G E L F D R I E P D I G M
I D F S T A A D I W E K L D   E L A I
M * W   * M Y *   M *   * M   L
V   V   V   V   V   V

```

IKK-1
IKK-2

```

M E Y C S G G D L R K L L N K P E N C C G L
I D F S Q A A E I K R Y I Q Q F D Q S S A I
L * W   T   * M   I M   R W *   M
V   N   V   M V   N Y   V
          V
          F
          W

```

DAPK

```

L E L V A G G E L F D F L A E K E S L
I D I I G A A D I W E W I G D R D T I
M * M L   * M Y * Y M   *   *   M
V   V M   V   V   V   V

```

IRK

```

M E L M A H G D L K S Y L R S L R P E A E N N P G R P P P T L
I D I I G   A E I R T F I K T I K   D G D Q Q   A K   S I
L * M L   * M   W M   M   *   *   M
V   V V   V   V   V   V   V

```

TGFbRII
ACTRIIA
ACTRIIB

```

T A F H A K G N L Q E Y L T R H V I
S G W   E R A S I S D F I K A N I V
Y   D   Q M T * W M S G Q L L
G   T V   V R K   M M
*

```

)         

[illegible]

Trk-NGFR P L L
TrkB G E I
TrkC A I M
M V
V
D
*

[illegible]

ILK	T	H	W	M	P	Y	G	S	L	Y	N	V	L	H	E	G	T	N	F	V	V
	S		F	I		F	A	T	I	F	Q	I	I		D	A	S	Q	W	I	I
			Y	L		W			M	W		L	M		*				Y	L	L
			M						V			M	V								M

Figure 3A

Peptide	N-terminal	C-terminal
<u>Akt1/RacA</u>		
95 K014D001	Myristyl - G M E Y A N G G E L F F H L S R E R V F	- NH2
<u>ALK1</u>		
96 K048D101	Myristyl - G T H Y H E H G S L Y D F L Q R Q T L	- NH2
<u>Braf</u>		
97 K003D001	Acetyl - K K K K K K G G S S L Y H H L H I I E T K F	- NH2
98 K003D101	Myristyl - G T Q W S E G S S L Y H H L H I I E T K F	- NH2
<u>c-Abl</u>		
99 K061D101	Myristyl - G T E F M T Y G N L L D Y L R E C N R Q E V	- NH2
<u>c-Met</u>		
100 K073D101	Myristyl - G L P Y M K H G D L R N F I R N E T H N P	- NH2
<u>c-Raf</u>		
101 K001D101	Myristyl - G T Q W S E G S S L Y K H L H V Q E T K F	- NH2
102 K001D001	Acetyl - S S L Y K H L H V Q E T K F	- NH2
<u>c-Sea</u>		
103 K074D101	Myristyl - G L P Y M R H G D L R H F I R A Q E R S P	- NH2
<u>c-Src</u>		
104 K051D101	Myristyl - G T E Y M S K G S L L D F L K G E T G K Y L	- NH2
105 K051D001	Acetyl - G S L L D L K G E T G K F L	- NH2
<u>CDK2</u>		
106 K049D101	Myristyl - G F E F L H Q D L K K F M D A S A L T G I	- NH2
107 K049D001	Acetyl - D L K K F M D A S A L T G M	- NH2
<u>CDK4</u>		
108 K050D001	Acetyl - D L R T Y L D K A P P P G L	- NH2
109 K050D101	Myristyl - G F E H V D Q D L R T Y L D K A P P P G L	- NH2
<u>CDK6</u>		
110 K089D101	Myristyl - G F E H V D Q D L T T Y L D K V P E P G V	- NH2
<u>Chk1</u>		
111 K088D102	Myristyl - G E Y S S G G E L F D R I E P D I G M	- NH2
112 K088D101	Myristyl - G E Y A S G G E L F D R I E P D I G M	- NH2
<u>CK IIa</u>		
113 K022D001	Acetyl - K K K K K G G N N T D F K Q L Y Q T L	- NH2
114 K022D101	Myristyl - G F E H V N N T D F K Q L Y Q T L	- NH2

Figure 3B

Csk

115 K058D101 Myristyl - G T E Y M A K G S L V D Y L R S R G R S V L - NH2
116 K058D001 Acetyl - G S L V D L R S R G R S V L - NH2

Fak

117 K060D101 Myristyl - G M E L S T L G E L R S F L Q V R K Y S L - NH2

FGFR-3

118 K071D101 Myristyl - G G N L R E F L R A R R P P G L E - NH2
119 K071D001 Acetyl - G N L R E F L R A R R P P G L E - NH2
120 K071D102 Myristyl - G V E Y A A K G N L R E F L R A R R P P G L E - NH2
121 K071D901 Stearyl - G S F D T S K P P E E Q L - NH2

Flk1

122 K068D101 Myristyl - G V E F S K F G N L S N F L R A K R N L F V P - NH2
123 K068D101 Myristyl - G G N L S N F L R A K R N L F V P - NH2
124 K068D001 Acetyl - G N L S N F L R A K R N L F V P - NH2
125 K068D901 Stearyl - G R F R Q G K D Y V G E L - NH2

GSK3b

126 K018D003 Acetyl - K K K K K K G G G V A R H Y S R A K Q T L P - NH2
127 K018D002 Acetyl - V A R H Y S R A K Q T L P - NH2
128 K018D101 Myristyl - G D Y V P E T V Y R V A R H Y S R A K Q T L - NH2
129 K018D001 Acetyl - R V A R H Y S R A K Q T - NH2

Hck

130 K056D101 Myristyl - G T E F M A K G S L L D F L K S D E G S K Q - NH2

Iak1

131 K087D101 Myristyl - G L E Y A P L G T V Y R E L Q K L S K F - NH2

IKK-1

132 K090D101 Myristyl - G M E Y S S G G D L R K L L N K P E N S S G L - NH2

IKK-2

133 K091D101 Myristyl - G M E Y S Q G G D L R K Y L N Q F E N S S G L - NH2

ILK

134 K107D101 Myristyl - G T H W M P Y G S L Y N V L H E G T N F V V - NH2
135 K107D901 Stearyl - G Y N V L H E G T N F V V - NH2

Figure 3C

IRK

136 K094D101 Myristyl - G M E L M A H G D L K S Y L R S L R P - NH2
137 K094D001 Acetyl - A Q N N P G R P P P T L - NH2
138 K094D102 Myristyl - G L K S Y L R S L R P E A - NH2
139 K094D103 Myristyl - G A E N N P G R P P P T L - NH2
140 K094D104 Myristyl - G L R P E A E N N P G R P P P T L - NH2

Jak1

141 K084D101 Myristyl - G M E F L P S G S L K E Y L P K N K N K I - NH2
142 K084D102 Myristyl - G L K E Y L P K N K N K I - NH2

Jak2

143 K085D102 Myristyl - G L R D Y L Q K H K E R I - NH2
144 K085D105 Stearyl - G L R D Y L Q K H K E - NH2

Jak3

145 K086D101 Myristyl - G M E Y L P S G S L R D F L Q R H R A L - NH2
146 K086D102 Myristyl - G M E Y L P S G S L R D F L Q R H R A R L - NH2
147 K086D103 Myristyl - G L R D F L Q R H R A R L - NH2

Lck

148 K057D001 Acetyl - G S L V D L K T P S G I K L - NH2
149 K057D101 Myristyl - G T E Y M E N G S L V D F L K T P S G I K L - NH2

Lyn

150 K055D101 Myristyl - G T E Y M A K G S L L D F L K S D E G G K V - NH2

MARK1

151 K045D101 Myristyl - G M E Y A S G G E V F D Y L V A H G R M - NH2

PDGFR-b

152 K064D001 Acetyl - G D L V D Y L H R N K H T F L - NH2
153 K064D101 Myristyl - G T E Y S R Y G D L V D Y L H R N K H T F L - NH2

PKCb

154 K008D101 Myristyl - G M E Y V N G G D L M Y H I Q Q V G R F - NH2
155 K008D001 Acetyl - K K K K K K G G D L M Y H I Q Q V G R F - NH2

Plk

156 K035D001 Acetyl - R S L L E L H K R R K A - NH2
157 K035D101 Myristyl - G R S L L E L H K R R K A - NH2

Figure 3D

158 K035D102 Myristyl - G L E L S R R R S L L E L H K R R K A L - NH2
Ret

159 K080D101 Myristyl - G V E Y A K Y G S L R G F L R E S R K V G P - NH2

160 K080D001 Acetyl - G S L R G F L R E S R K V G P - NH2
Ron

161 K075D101 Myristyl - G L P Y M C H G D L L Q F I R S P Q R N P - NH2
SNK

162 K038D101 Myristyl - G L E Y S S R R S M A H I L K A R K V L - NH2
Syk

163 K082D101 Myristyl - G M E M A E L G P L N K Y L Q Q N R H V - NH2
TGFbRII

164 K093D101 Myristyl - G T A F H A K G N L Q E Y L T R H V I - NH2
TrkB

165 K102D101 Myristyl - G F E Y M K H G D L N K F L R A H G P D A V L M A - NH2

166 K102D106 Myristyl - G L R A H G P D A V L M A - NH2

167 K102D107 Myristyl - G L R A H G P D A V L - NH2

168 K102D108 Myristyl - G L N F K L R A H G P D A - NH2

169 K102D109 Myristyl - G F K L R A H G P D A V L - NH2
Zap70

170 K083D101 Myristyl - G M E M A G G G P L H K F L V G K R E E I - NH2

% change in daily food consumption (g/mouse/d)

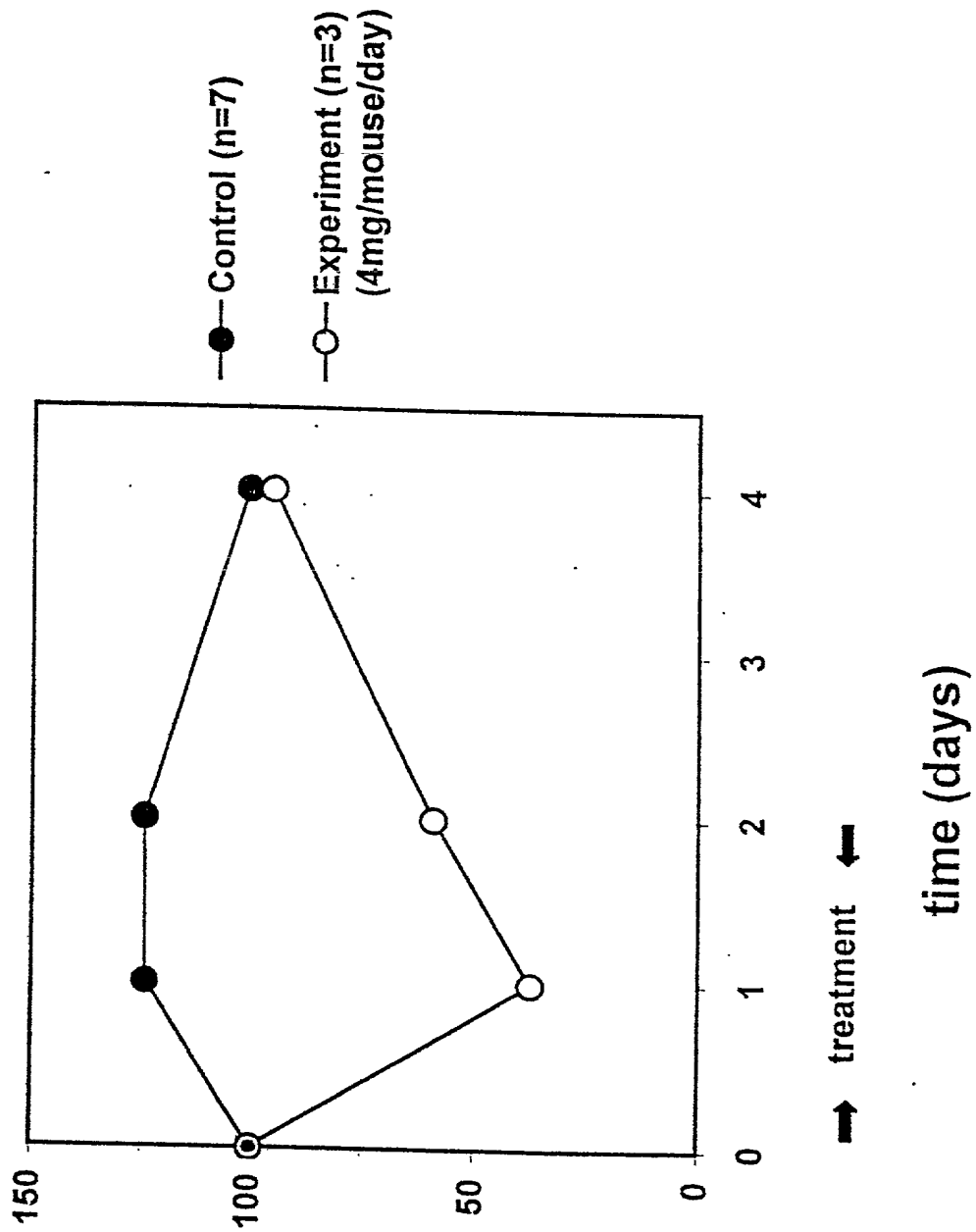


Figure 4

2025 RELEASE UNDER E.O. 14176

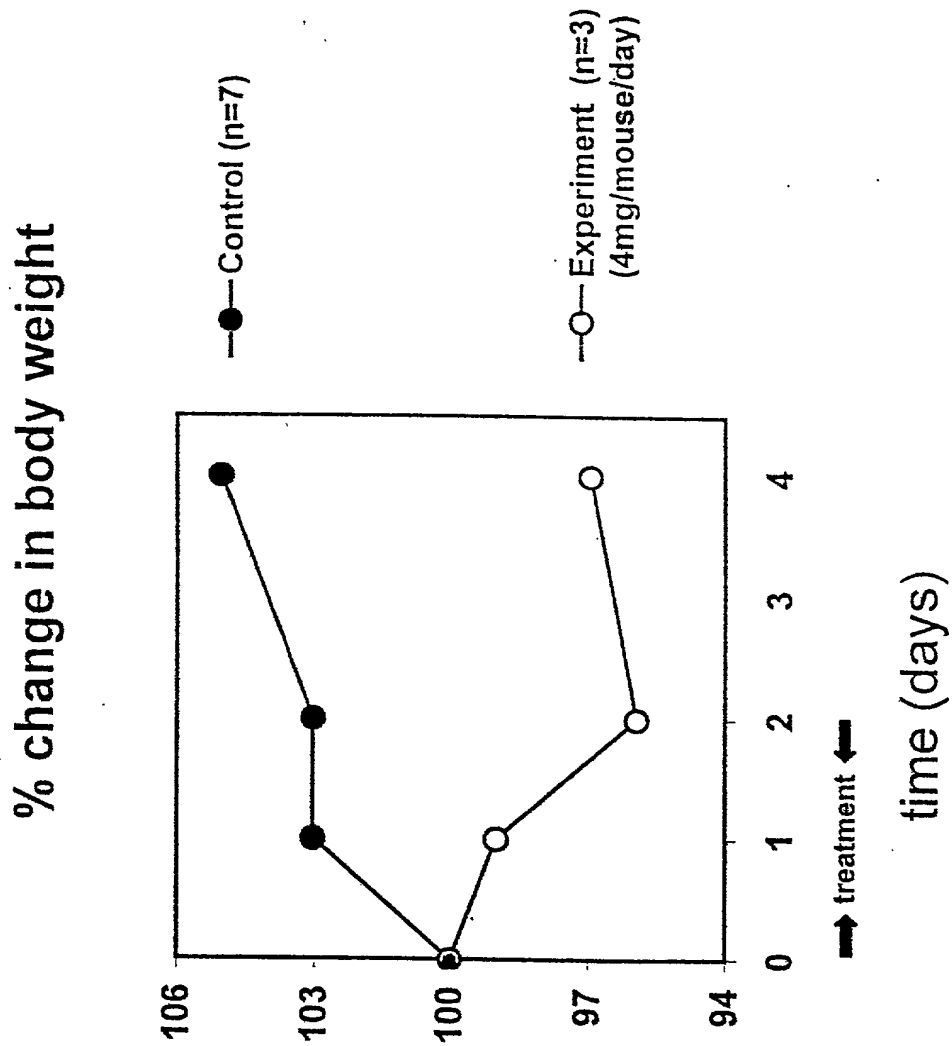


Figure 5

MODULATION OF TH1/TH2 DIFFERENTIATION
BY A JAK-DERIVED PEPTIDE

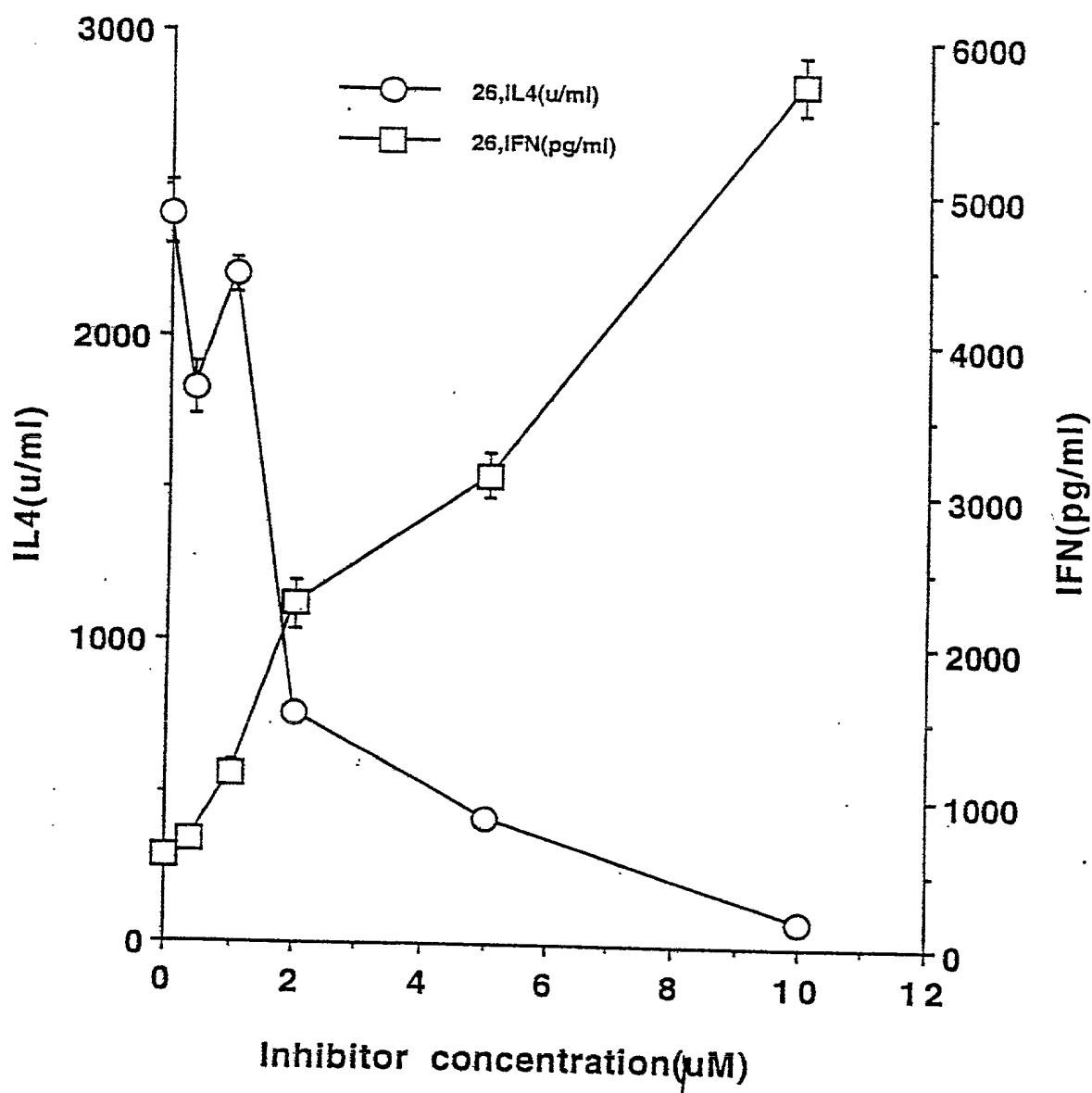


Figure 6

2025 RELEASE UNDER E.O. 14176

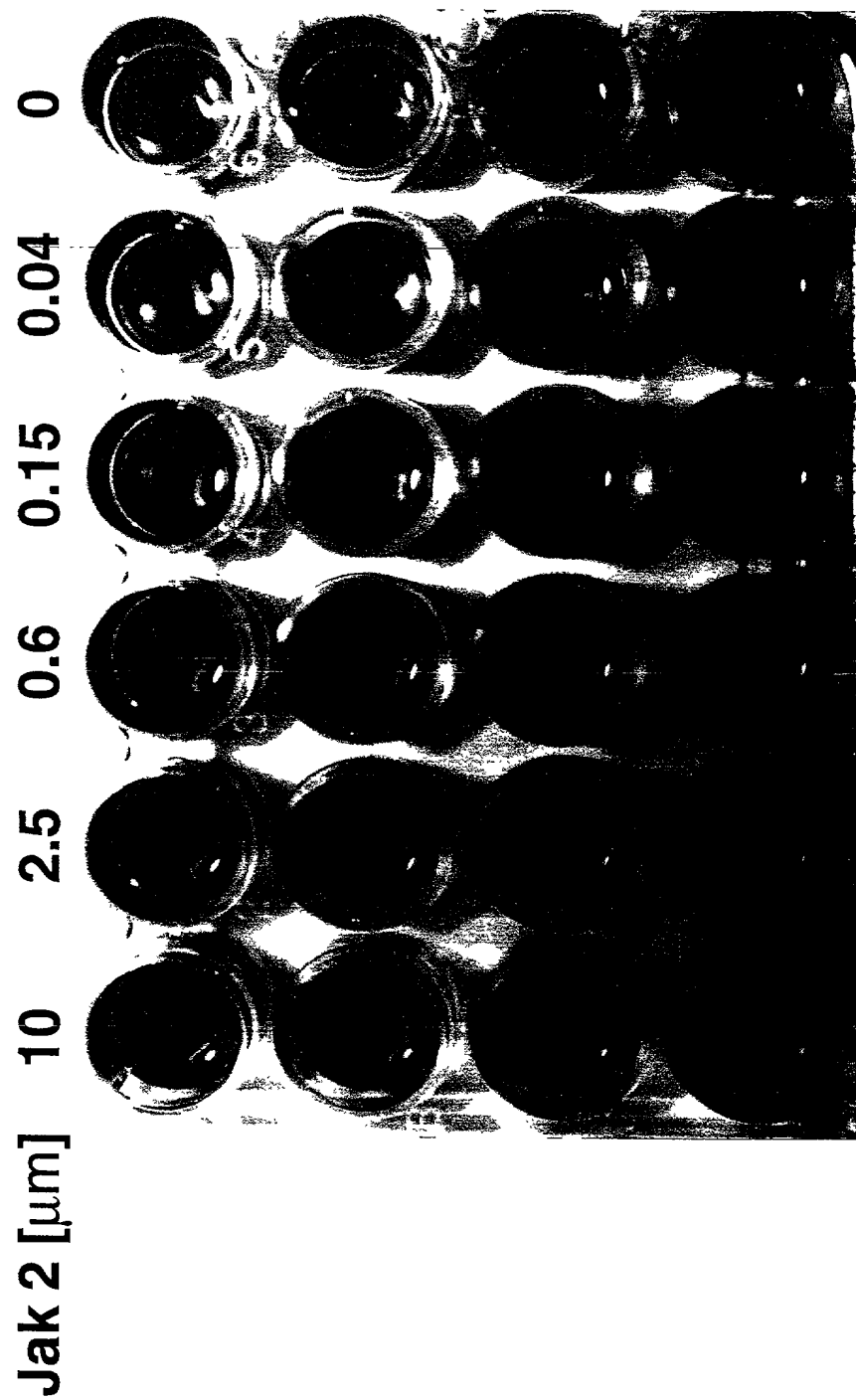


Fig. 7